THE TECH

DAILY

VOL. XXIX. NO. 52. BOSTON, MASS., MONDAY, NOVEMBER 29, 1909 PRICE ONE CENT

LYRIC WRITERS ARE ALREADY AT WORK

Show Poster Competition Is To Open Soon---More Men Needed

Although a good many lyric writers responded to the call last Saturday, the number now entered in the competition is not large enough to put out the quantity and quality necessary for "The Queen of the Cannibal Isles," Tech Show 1910. At the dinner on Saturday evening Mr. Francis said that with proper backing by the students in all phases of the Show he could make Tech Show 1910 what he had always noped for, not merely the best college show in the country, but a first class musical comedy. The lyrics are one of the most important factors in producing a show that will have life and go in it, that will not drag at any point. Every one enjoys a good song with a catchy air and clever verse, and this is what we must have for the show this year.

Any one desiring to enter the competition may get the approximate titles from the Stage Manager, but this does not mean the lyrics are to be written on these subjects alone? A good lyric can be worked in very easily be it topical, amorous, a imitiative. The idea that a man has to write all the lyrics for the show or none at all seems to be prevelant. This is not the case at all. The lyrics for "William Willie and Bill," Tech Show 1907, were written by six men, and those for last year's "That Pill Grimm," by seven so it should be evident that if a man has a single lyric or even a single verse that he thinks is good, he should submit it to the Stage Manager.

Now that the title for the Tech Show 1910 has been selected, the competition for the poster will be called in a few days. The posters are generally of three colors and about twelve by twenty inches, but the specifications for this year's poster have not been definitely decided on as yet. Of course the poster shoud suggest the title of the Show, and should be rather striking, not, however, at the expense of art and good taste. Particulars of the competition will appear at an early date, but all men expecting to enter should be getting their ideas together right away, as the competition does not last any length of time.

ALL-AMERICAN TEAMS

It is interesting to note that in the choice for the American football team for 1909, out of nine papers who choose a team only twenty-four different men are picked. The vote is as follows: For left end, Kilpatrick of Yale, 9; for left tackle, Hobbs, Yale, 6, McKay, Harvard, 1. Lilly, Yale, 2; for left guard, Tobin, Dartmouth, 1, Andrus, Yale, 7. Goebel, Yale, 1; for centre, Cooney, Yale, 9; for right guard, Andrus, Yale, 1, Tobin, Dartmouth, 3, Goebel, Yale, 3, Waller, Princeton 2; for right tackle, Fish, Harvard, 7, Pullen, Army, 1, Siegling, Princeton, 1; for right end, Regnier Brown, 1, Browne, Harvard, 2, McCaffrey, Fordham, 1, Smith, Harvard, 3, Page, Chicago 1. Logan, Yale, 1; for quarter back, Sprackling, Brown, 6, Voorhees, Penn., 2, McGovern, Minn., 1; for left half back, Coy, Yale, 5, Philbin, Yale, 4; for right half back, Philbin, Yale, 4, Minot, Harvard, 4, Allerdice, Mich., 1; for full back, Minot, 5, Coy, Yale, 4.

CROSS-COUNTRY RACE WON BY E. W. DEWITT

R. M. Perry 1912 Comes Second---Winning the Time Prize Cup

Shortly after three o'clock last Saturday the seventh annual Handicap race started with but thirteen men entered. The three cups offered as first, second and third prizes by E. H. Lorenz 1905, R. Ellis 1909, F. H. Hunter 1902, and A. R. Hunter 1908 were awarded to E. W. DeWitt 1911, Foster Russell 1911, and R. M. Ferry 1912 respectively. R. M. Ferry came in second but since he also had the best time he had his choice of the two cups, the donors having stipulated that only one cup should go to any single contestant.

The four best times were made by R. M. Ferry 1912, H. G. Watkins 1912, E. W. DeWitt 1911, and L. O. Mills 1910. These men receive the cross-country insignia C. T. C.

E. H. Lorenz one of the doners of the cups who held the record for this course until Howland lowered it last year, ran with the men, starting with H. G. Watkins from scratch. Mr. F. H. Hunter who has always taken especial interest in this race was one of the marshals.

The first man to start over the eight mile course was L. U. Bowman 1913 who had a handicap of eight minutes. S. E. Bates 1911, R. D. Bonney 1913, M. D. Hersey 1909, W. T. Moore 1912, and Foster Russell 1911 started next with handicaps of six and one-half minutes. V. V. Ballard 1912, and B. C. Huber 1910 went off a minute later with handicaps of five and one-half minutes. E. W. DeWitt 1911, the winner and R. M. Ferry 1912 who won the time prize followed with handicaps of four and three-quarters and three and three-quarters respectively next C. P. Eldred 1911 with a three minute handicap, E. Jacobs 1910 with a minute and three-quarters and L. O. Mills 1910 who had a handicap of one minute started in order. H. G. Watkins 1912 was scratch man.

At Brookfarm woods about three miles from the start Bonney was leading followed closely by Huber and Russell. Six miles out on Church Street near Weld, DeWitt had come to the front with Ferry and Russell close up. The runners were in this same order a mile further and thence to the finish.

The weather was perfect but the course was rather heavy in the lower spots owing to the recent rains. This later slowed down the times a little but they were very good nevertheless.

A feature of the race was the plucky race ran by B. C. Huber 1910 who was wearing a new style of shoes. These shoes gave him untold inconvenience until finally he was forced to remove them and run the remaining two miles in his bare feet.

A much larger number of entries were expected since this is intended to give a chance to the men who cannot make the regular team and liberal handicaps are given for this reason.

An especial attraction this year were the handsome and expensive cups which had been provided. In spite of this fact only thirteen men started in the race while nineteen ran last year.

The following is a summary of the race giving the names of the men in order of their finish.

Marshals: F. H. Hunter 1902, C. S. Clapp 1908, E. H. Gage 1913, C. H. Cromby, A. O. Moulton, Lawrence Irving. (The last three are members of the Roxbury A. A.)

(Continued on page 4)

NEW THESIS WORK IN MECH. LAB.

Many Tests to Be Made on The Strength of Beams

Thesis work that promises to be of much interest is about to begin in many of the departmental laboratories. In the Laboratory of Applied Mechanics it is proposed to carry out during the coming winter investigation of the following nature; an investigation of a new method of proportioning concrete with special regard to compressive strength and the modulus of elasticity; Anchorage of plain rods in concrete by means of bends of different length and shapes; Beam tests—two sets of concrete beams will be tested, one set containing about thirty beams which will be tested to determine the effect of the various kinds of stirrup reinforcement, the other set to determine the effect of parting beams in the middle; The effect of small quantities of vegetable matter in concrete. A study of twisted steel rods such as are used in reinforced concrete, with the special idea of determining the effect of various amounts of twist on the properties of steel rod of different sizes and containing different amounts of carbon. An investigation of the effects of saturated and superheatd steam upon steel, semi-steel, cast iron, and gun iron.

While the above titles are not necessarily those which will appear on the final work, they indicate very well the scope of the various investigations.

Twelve men from the departments of Civil and Mechanical Engineering will undertake this work which will be in charge of the instructing staff in the Testing Laboratory.

THE TECH DINNER

All Connected With the Paper Are Urged to Attend

All the men in any way connected with The Tech are strongly urged to attend the dinner in the Union next Tuesday evening. Anyone who intends to come out for the paper or is interested in the way in which the paper is published is also invited. The object of this dinner is to have the men on The Tech get in closer touch with one another and for the new men to become better acquainted with the men above them.

This dinner will probably be followed by others of a similar nature during the winter and the talks will be instructive as well as interesting.

The men chosen to speak at the dinner next Tuesday have all had considerable experience in the publication of papers and magazines.

Mr. W. F. Dolke, 1908, formerly editor-in-chief of The Tech, will speak on "Editorial Opinions." Mr. I. W. Litchfield 1885 of The Technology Review has chosen for his subject "Organizations and Business of Getting out a Paper." Mr. M. R. Scharff 1909 will speak on Reminisences of Past Tech Boards.

ACCIDENT TO 1912 MAN

Adolphe C. Cardinal, 1912, one of the most popular men of Course XI has been absent from his class since last Monday. He has blood-poisoning in his leg and will probably stay out for a few weeks. His condition is quite serious.

NEW EXPERIMENTAL WORK FOR COURSE XIII

Forty-Foot Working Model Given to the Naval Arch Department

Prof. Peabody, the head of the Department of Naval Architecture, having received the assurance of financial backing, is preparing to undertake investigation of certain problems of the propulsion of ships by the aid of a navigable model about forty feet long. The hull of this model has already been ordered and the propelling machinery will soon be. This machinery will consist of a gasoline electric generating set and an electric motor geared to the propeller shaft. It has the advantage that the operating conditions can be controlled over a wide range and measurements of power can easily and accurately be made. It can also be adapted to other hulls that may be built in the future.

In order that the experiments may be conducted with the real condition of ship propulsion, the model will be a reduced copy, to one fifth scale, of the U. S. Revenue Cutter "Manning" which was put through a complete set af progressive speed trials by Prof. Peabody in 1899, a report of which can be found in the Transactions of the Society of Naval Architects and Marine Engineers.

The department has been promised the co-operation of the U. S. Experimental Model Basin at the Washington Navy Yard, where tests will be made of a twenty foot model of the hull and of a propeller sixteen inches in diameter which will be tested separately.

It is expected that various forms and locations of propellers will be tested with the model now building, including twin and triple screw as used with marine turbines. The hull will then be changed as much as may be possible without rebuilding and afterwards a number of hulls representing various types of ships will be tested in the same way.

The model will also be used to study the problems of steering and maneuvering, which have received relatively little attention.

This equipment will be used mainly during the summer for original research, but students of the department will receive instruction in its use so that it will form a part of the laboratory equipment of the Institute.

PHYSICS DEPARTMENT

Examples of Energy of the Modern Rifle Bullet

The Department of Physics has received from Dr. F. W. Mann of Milford some interesting examples of the energy of the modern rifle bullet. Thick pieces of boiler plate are neatly perforated, and the effect of the soft-nose bullets is shown on blocks of lead, in which they have torn holes many times their own diameter. Several panes of glass, perforated through the centre, show the usual inertia effect accompanied by a curious concentric fracture.

CALENDAR.

Monday, November 29.
Nominations for Junior Prom.
4:00 P.M.—Open Basket Ball Practice.
Tuesday, November 30.
4:15 P. M.—Banjo Club Rehearsals, 33 Rogers.
1:00 P M.—1913 Class Meeting.
Wednesday, December 1.
4:00 P. M.—B. B. P.

THE TECH.

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BOSTON, MASS., NOVEMBER 29, 1909.

1913 MASS MEETING

Class Dinner and Class Dues To Be Thoroughly Discussed

There will be a big 1913 Mass Meeting next Tuesday, at one o'clock. It is most important that every single man of the Freshman Class attends this meeting for the question of the Freshman Dinner will be brought up and discussed.

The meetings so far this year have only been fairly successful and unless the 1913 Class wishes to carry a reputation of having poor spirit through their time here at the Institute, they should attend the class meetings more regularly and in greater numbers.

There are various matters to consider, not the least important of which is the question of class dues. When one hears that out of a class of nearly four hundred, not one hundred and fifty have felt it worth while to help their class along by paying the dues asked for, it is not hard to guess at the sort of fellows—in the class, yet this is the state of affairs in 1913 and a pretty serious state it is. Now there are many expenses but can anyone think of a way of paying these without anything to pay them with. If he can, let him speak up.

Now about the class dinner. There seems to be a rather strong sentiment on the part of many of the men against holding it in the Union. But then, if it is not held there, there will undoubtly be some increase in the charge per plate. And it is this question which will be discussed next Tuesday. Every man in 1913 is interested and let him show his interest by coming out to eht meeting.

Senior 1913.

It has become somewhat of a naval fashion to test the respective strength of arms and armor by using some old warship as a target. It is now announced that England will shortly begin a series of important gunnery and torpedo experiments with the old battleship Edinburgh.

CURRENT EVENTS

With the aid of friends, Chautauqua Institution proposes to establish, beginning with the season of 1910, a system of scholarships for students in its summer schools. In adopting this principle, Chautauqua follows the precedent established by colleges and universities which for centuries have provided aid in part the expenses of education.
tor students unable to meet wholly or
For the season 1910, twenty full scholarships and thirty half scholarships will be provided.

Interesting figures have been prepared by the alumni council of Columbia University, showing the geographical distribution of the graduates of Columbia so far as they have reported themselves to the alumni associations. There are 13,367 in the United States and 363 in foreign countries, making the total number of living graduates 13,730. It is curious to note, however, that more than one-half of all the graduates live in New York State, and that nearly 90 per cent. of the alumni in the State live in the city of Greater New York, Manhattan and The Bronx claiming 6,473, Brooklyn and Queens 1093 and Richmond 67.

With a view to enabling anyone to determine the denomination of a postage stamp at a glance, Postmaster-General Hitchcock has decided to have printed, as an experiment, the ten-cent stamp in a rich brown ink on a yellow paper. If the experiment proves a success, other stamps of a higher denomination will be so printed. A supply of the new stamps will be placed on sale as soon as possible. Heretofore there has been much confusion over the colors of the various denominations of stamps because of the use of inks of different shades of the same colors.

The first practice of the United States army in aerial warfare began at Sandy Hook Monday. A large captive balloon was sent up and gunners at Fort Hancock elevated their big guns to test their range on the imaginary enemy. With three big balloons as targets, actual shots will be fired later in the week. Lieutenant Benjamin B. Foulois of the Signal Corps, is commanding the terial invaders and some of the best known ordnance and artillery officers are commanding the defece. The tests will not be open to the public.

It is said that experiments in Germany have shown that field artillery cannot be aimed and fired quickly enough to disable airships in motion. The Germans have invented three kinds of cannon to fight balloons, and this Government is carrying on the tests to that end.

That the fortified artificial island for the defence of the entrance to Chesapeake Bay which President Taft so earnestly advocated in his speech at Norfolk last Friday, can probably be completed at a cost not to exceed $3,000,000, instead of $10,000,000, or $12,000,000 is learned fro man authoritative source. The construction of such an island was first recommended by the Taft board in 1906. It is to be placed on what is known as the "middle ground," about midway between Capes Charles and Henry, where its guns will command the five-mile channel of navigable water which constitutes the only entrance to the Cheapeake, and which is not now protected by any fortifications, being eighteen miles from Fort Monroe, six miles beyond the effective reach of its largest guns. In estimating on the recommendation of the Taft board, the Engineer Corps fixed the probable cost at $12,000,000.

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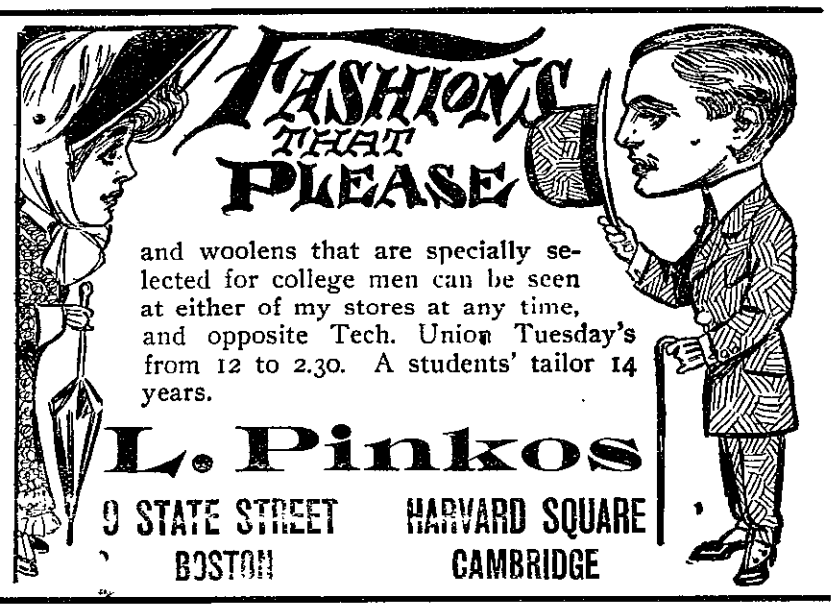
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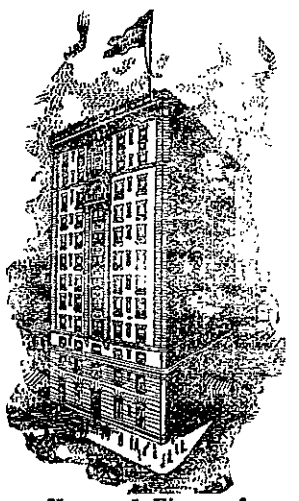

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Tremont—Elsie Ferguson in "Such a Little Queen,"

Keith's—Vaudeville. Matinees daily at 2. Exenings at 8.

Globe—"The City." Matinees at 2. Evenings at 8.

Park—"A Gentleman From Mississippi." Matinees at 2. Evenings at 8.

Majestic—Maxine Elliot in "The Chaperon."

American—Vaudeville. Matinees daily at 2. Evenings at 8.

Boston Opera House—Grand Opera. Matinees at 2. Evenings at8.

INTERCOLLEGIATE NEWS

Some talk has been started at Princeton of having Roper return as head coach. This season he has been in charge of the Missouri eleven.

Perhaps the youngest college graduate in the United States os Norbert Weiner, a lad of fourteen, who has an A B. from Tufts College.

Coach Stagg of Chicago would penalize crawling with the ball, claiming that this practice tempts opponents to pile on.

Pennsylvania underclassmen will hold their annual Bowl Fight on Wednesday, December 1, instead of this afternoon, as was at first announced. The date has been changed so that the contest would in no way interfere with the Thanksgiving holidays.

GEOLOGICAL TRIPS

The field trips of the course in structural geology concluded with the trip to Newtonville last Friday, Nov. 26. This year the excursions have differed very little from those of the past few years, but those students who have taken the trips have heartily enjoyed them. The trips have all been to local geological deposits.

The following excursions constitute the course in field geology, especially designed to illustrate certain features of structural and strategraphic geology.

1. Friday, Oct. 22—Newton Centre.
   Structure of Sedimentary Rocks.
2. Friday, Oct. 29—Brighton.
   Structure of Sedimentary Rocks.
   Structure of Igneous Rocks.

The next trip was postponed on account of Field Day, and was taken the following Friday, Nov. 12.

3. Quincy.
   Structure of Igneous Rocks.
4. Friday, Nov. 19—Marblehead.
   Structure of Igneous Rocks.
5. Friday, Nov. 26—Newtonville.
   Structure of Sorlicial Deposits.

"THE DOPESTER"

The "Dopester" will be glad to answer all questions in regard to athletics, both, at the Institute and outside, that he is able too. Send your questions to the "Dopester" care of The Daily Tech.

Those 'varsity and class basket-ball schedules should be ready very soon. The season will be under full swing in a month.

Indoor work for the track men at the Gym. soon.

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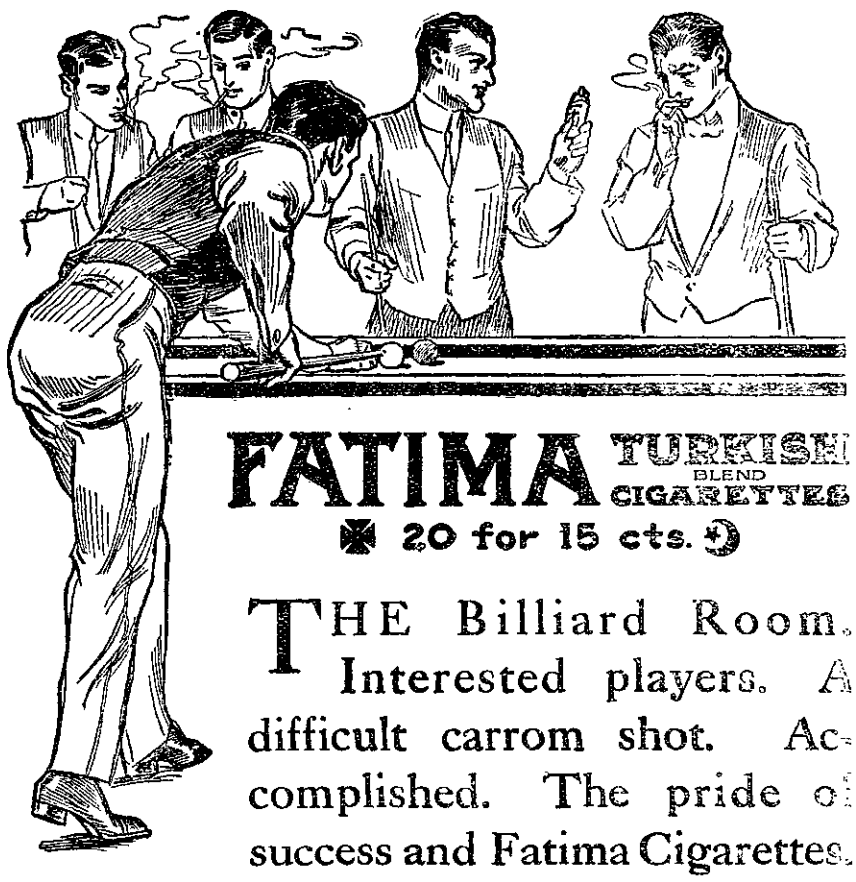

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CROSS COUNTRY RACE WON BY E. W. DEWITT

(Continued from page 1.)

Name	Class	Handicap	Elapsed Time	Actual Time
E. W. DeWitt	1911	4.45	52.43	49.28
R. M. Ferry	1912	3.45	53.05	48.50
Foster Russell	1911	6.30	53.58	52.28
R. D. Bonney	1913	6.30	54.08	52.38
V. V. Ballard	1912	5.30	55.43	53.13
C. P. Eldred	1911	3.00	56.23	51.23
L. O. Mills	1910	1.00	56.36	49.36
E. Jacobs	1910	1.45	57.01	50.46
H. G. Watkins	1912	Scratch	57.07	49.07
B. C. Huber	1910	5.30	59.07	56.37
M. D. Hersey	1909	6.30	1.05.10	1.03.40
S. E. Bates	1911	6.30	1.05.21	1.03.51
L. N. Bowman	1913	8.00	1.11.32	1.11.32

GENERAL NOTICES.

Elements of Electrical Engineering (683). Problem up to number 214. Chap. XII are returned in the box in E. E. Library. Harrison W. Smith.

Dynanmic Electric Machinery (861) Problems due Nov. 20 are returned.
Harrison W. Smith.

All men desiring to enter the lyric competition who have not seen Mr. Francis should send their names and addresses to K. Greenleaf, Cage, as soon as possible. Authors who submitted books for Tech Show 1910 may have same, together with their sealed envelopes, by calling at the Cage.
Kenneth Greenleaf, Stage Manager.
52-4

LOST.

A small black Moore's non-leakable fountain pen. Reward. See circulation manager The Tech.

1913.

Class meeting, Tuesday, in Huntington Hall, at 1 o'clock. Important. Everybody come. 52-3

Desirable Rooms for students, furnished or unfurnished, open fires, private baths. Rooms at $4.00 to $10.00 per room. Five minutes' walk from the Institute. Apply Business Manager, The Tech.

GYM TEAM.

All candidates for the Gym Team report at the gym promptly at 4.15 Monday, to meet the coach and begin regular work. New men who are interested are especially requested to come out.

1911.

1911 Dues may be paid to me at the Union between 1 and 2 every day.
E. A. NASH, Treas.

1911.

Nominations for membership on the Junior Prom. Committee will open Monday, Nov. 29, closing at 4 P. M. Thursday, Dec. 2. All nominations must be signed by at least ten (10) members of the class, and left at the Cage for the Board of Directors, Class of 1911.

All men who will write class histories for Technique 1911 are urgently requested to hand in their names immediately. A new manner of selection is to be instituted and work must begin at once. Ideas, help and information given.
W. T. SELIGMAN, Cage.

GLEE CLUB.

Important meeting Tuesday at 4.15 in Union. Every man must be there.

1913 NOTICE.

Friday is last day for ordering class pipes.
W. NEUSOME EICHORN,
C. H. STRANG.
52,53,54,55

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